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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
10/039,049	12/31/2001	James F. Frye JR.	H052617.1138US0	4758		
1200	7590 12/10/2004		EXAM	EXAMINER		
•	IP, STRAUSS, HAUE	ELAMIN, ABDELMONIEM I				
44TH FLOOR	ANA STREET		ART UNIT	PAPER NUMBER		
HOUSTON,	TX 77002	2116				

DATE MAILED: 12/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	n No.	Applicant(s)				
Office Action Summary		10/039,04	9	FRYE, JAMES F.				
		Examiner		Art Unit				
		A Elamin		2116				
The MAILING DATE of Period for Reply	of this communication	appears on the	cover sheet with	the correspondence add	dress			
A SHORTENED STATUTO THE MAILING DATE OF TI - Extensions of time may be available after SIX (6) MONTHS from the mail - If the period for reply specified about - If NO period for reply is specified about - Failure to reply within the set or extending and reply received by the Office late earned patent term adjustment. See	HIS COMMUNICATIO under the provisions of 37 CF ng date of this communication is less than thirty (30) days, a ove, the maximum statutory pe nded period for reply will, by s than three months after the n	ON. R 1.136(a). In no even. r. a reply within the statueriod will apply and will tatute, cause the appl	ent, however, may a reputer, may a reputer minimum of thirty II expire SIX (6) MONT ication to become ABA	oly be timely filed (30) days will be considered timely HS from the mailing date of this co NDONED (35 U.S.C. § 133).				
Status								
 Responsive to comm This action is FINAL. Since this application closed in accordance 	2b)⊠ is in condition for allo	This action is no owance except	on-final. for formal matte	•	merits is			
Disposition of Claims								
4)	n(s) is/are with allowed. ejected. objected to.	ndrawn from con						
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	 ☐ The specification is objected to by the Examiner. ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. 							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
• • • • • • • • • • • • • • • • • • • •			_) is objected to. See 37 CF	R 1.121(d).			
11) The oath or declaration	n is objected to by the	e Examiner. No	te the attached	Office Action or form PT	O-152.			
Priority under 35 U.S.C. § 119								
12) Acknowledgment is m a) All b) Some * c 1. Certified copies 2. Certified copies 3. Copies of the c	ade of a claim for force None of: of the priority docume of the priority docume of the priority docume of the location of the locat	nents have bee nents have bee priority docume ireau (PCT Rule	n received. n received in Ap ents have been r e 17.2(a)).	plication No eceived in this National	Stage			
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Notice of References Cited (PTC2) Notice of Draftsperson's Patent I Information Disclosure Statemer Paper No(s)/Mail Date	Drawing Review (PTO-948		Paper No(s)	mmary (PTO-413) /Mail Date ormal Patent Application (PTC -·)-152)			

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-4 and 6-37 are rejected under 35 U.S.C. 102(e) as being anticipated by Anand et al, US, Pat. No. 6,810,478.
- 3. Claim 1, Anand teaches a method of directing a computer network for booting using an embedded operating system based computer [title, abstract, col. 2, lines 39-52], the method comprising:

Listening with an embedded operating system based computer [col. 3, lines 44-49] to PXE requests from a plurality of PXE enabled target servers of a computer network [col. 2, lines 42-45]; and

providing from the embedded operating system based computer to one of the plurality of PXE enabled target servers a netboot program and address of a boot server from the PXE appliance responsive to a PXE request from one of the PXE enabled target servers [abstract, col. 2, lines 39-52].

4. Claim 2, Anand teaches the computer network comprises a plurality of subnetworks of PXE enabled target servers [col. 3, lines 44-49].

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5. Claim 3, Anand teaches the embedded 0S based computer listens to one of the subnetwork [abstract].

- 6. Claim 4, Anand teaches the embedded OS based computer listens to one of the subnetwork by wireless communication [col. 3, lines 9-19].
- 7. Claim 6, Anand teaches the plurality of PXE enabled target servers are part of a subnetwork of the computer network [Fig. 1].
- 8. Claims 7-8, Anand teaches the listening step is performed through a TCP/IP stack [col. 1, lines 25-28].
- 9. Claims 9-10, 13, Anand teaches transferring a boot image from the boot server responsive to netboot program executing on one of the PXE enabled target servers [col. 6, line 51].
- 10. Claim 11, Anand teaches the boot image is provided by wireless communication [col. 3, lines 9-19].
- 11. Claim 12, Anand teaches the boot image comprises response to preboot environment queries [col. 3, lines 20-30].
- 12. Claim 14, Anand teaches the boot image comprises code to install at least one operating system [abstract].
- 13. Claim 15, Anand teaches he boot image comprises application software [col. 3, lines 9-19].
- 14. Claim 16, Anand teaches the netboot program is executed out of a read-only memory [Figs. 2 and 3].

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15. Claim 17, Anand teaches the boot image is transferred using a trivial file transfer protocol [col. 1, line 19].

- 16. Claim 18-21, Anand teaches the PXE enabled server is booted by executing the boot image [abstract].
- 17. Claims 22 and 30, Anand teaches a NIC; a microcontroller coupled to the NIC ... [Fig. 2].
- 18. Claims 23-24, Anand teaches a display coupled to the processor and an input device coupled to the processor [inherently computers comprise displays and input devices].
- 19. Claims 25 and 31, Anand teaches a memory coupled to the processor [Fig. 2].
- 20. Claims 26 and 32, Anand teaches a web browser; PXE service application; a TFTP application; a Net Boot program; and a boot image [abstract, col. 1, line 19, col. 6, line 51].
- 21. Claim 27, Anand teaches the embedded OS based computer is configured through the web browser [col. 5, lines 19-25].
- 22. Claim 28, Anand teaches the embedded OS based computer is configured directly [abstract].
- 23. Claim 29, Anand teaches wherein the NIC is implemented as part of the microcontroller [Fig. 2].
- 24. Claim 33, Anand teaches the embedded OS based computer includes at least one PXE application to provide desired PXE services [abstract].
- 25. Claim 34, Anand teaches the computer network comprises a plurality of subnetworks of PXE enabled target servers [col. 3, lines 44-49].

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26. Claim 35, Anand teaches the embedded 0S based computer listens to one of the subnetwork [abstract].

- 27. Claim 36, Anand teaches the data transfer protocol comprises a trivial file transfer protocol [col. 1, line 19].
- 28. Claim 37, Anand teaches the boot server provides the boot image for each target server on the computer network [col. 6, line 51].

Claim Rejections - 35 USC § 103

- 29. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 30. Claims 5 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anand et al, US, Pat. No. 6,810,478.
- 31. Claim 5, Anand fails to teach the embedded OS is Windows CE.

Official notice is taken that both the concept and the advantages of Windows CE is old and well known in the art.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Anand to include Windows CE, because of its fast boot times.

32. Claim 5, Anand fails to teach a handheld computer.

Official notice is taken that both the concept and the advantages of handheld computers is old and well known in the art

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Anand to include a handheld device, because The portability of a handheld device such as a Palm computer is uniquely advantageous for on-site installation and troubleshooting of network equipment at the time the invention was made to modify Anand to include handheld computer

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to A Elamin whose telephone number is (571) 272-3674. The examiner can normally be reached on MON-FRI 9:30 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne Browne can be reached on (571) 272-3670. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A Elamin Primary Examiner Art Unit 2116

December 16, 2004